

High School to College Articulation Map

Area of Study: Trade and Technical

Pathway: Precision Production Trades
Machine Tool

National Career Cluster: Manufacturing

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| <u>Region:</u> Davis/Weber <u>Districts:</u> Davis, Morgan, Ogden, Weber <u>School</u> <u>Contact person:</u> Janet James <u>Ph.#</u> 801-626-8547 <u>e-mail:</u> janetjames@weber.edu <u>Date:</u> 2007 | <u>College / Institution:</u> Weber State University <u>Articulation Agreement in place?</u> Yes X No <u>Name of Degree or Certificate:</u> AAS Degree in Manufacturing Engineering Technology |
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| High School | | | | College | | |
|---|---|---------------|-----------------|--------------------------------------|--|-----------|
| Course # | High School Suggested Courses | H.S. Credit | College Credits | Course # | College General Education Requirements | Credits |
| | | | | | General Education Courses Required (12 credit hours) | |
| | CE Writing* | 1 | 3 | ENGL 1010 | Intro to Writing | 3 |
| | | | | ENGL EN2010 | Intermediate Writing | 3 |
| | | | | ECON SS 1010 | Economics as a Social Science | 3 |
| | | | | Gen Ed | HU/CA Elective | 3 |
| | | | | | Support Courses Required (22 credit hours) | |
| | CE Communications* | 1 | 3 | COMM 2110 | Intro to Interpersonal & Small Group Communication | 3 |
| | | | | CHEM PS/SI 1110 | Elementary Chemistry | 5 |
| | | | | MATH QL1080 | Pre-Calculus | 5 |
| | | | | MATH SI1210 | Calculus I | 4 |
| | | | | PHYS PS/SI2010/L PHYS PS?SI2210/L | College Physics (w/lab) OR Physics for Scientists & Engineers (w/lab) | 5 |
| H.S.Total (General Ed.)And Other Available Credits | | | 6 | College Total Credits | | 34 |
| Course CIP # | High School Career Pathway Courses | H.S. Credit | College Credits | Course # | College Major Course Requirements | Credits |
| <u>Course#</u> | <u>Introductory Course: (preferred)</u> | <u>Credit</u> | | | Manufacturing Engineering Tech Courses Required (19 credit hours) | |

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|---|---|---------------|-----------|--|--|-----------|
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| Course# | Foundation Courses: (3credits required) | Credit | | | | |
| 48.0503 | Machine Tool (includes advanced Machine Tool courses) | 1 | 3 | MFET 1210/L | Machine Principles I | 3 |
| | | | | | | |
| Course # | Elective Courses: (1credit required) | Credit | | | | |
| 48.0508 | Welding | 1 | | | | |
| 48.0701 | Woodworking | .50 | | | | |
| 32.0199 | Student Internship (Critical Workplace Skills) | .50 | | | | |
| | Additional Articulated Classes Below | | | | | |
| 21.0122 | Principles of Engineering/PLTW I | .50 | 1 | MFET 1150 | Pre-Professional Seminar in Manufacturing | 1 |
| | | | | MFET 2150/L | Metal Form, Casting, & Welding (w/lab) | 4 |
| | | | | MFET SI2300 | Statics & Strength of Materials | 5 |
| | | | | MFET SI2410 | Quality Concepts and Statistical Applications | 3 |
| | | | | MFET 2440/L | Computer Numeric Control (CNC) in Manufacturing (w/lab) | 3 |
| | | | | MFET 2899 | Associate's Degree Assessment | 0 |
| | | | | | Technical Courses Required (12 Hours) | |
| 15.1302 | CAD Drafting Technology | .50 | 3 | DGET 1250 | Computer Aided Drafting | 3 |
| 21.012 | Intro to Engineering Design /PLTW II | .50 | 3 | DGET 1260 | Advanced Computer Aided Drafting | 3 |
| 52.0417 | Computer Technology* | .05 | 3 | TBE 1700 | Introduction to Microcomputer Applications, (partially fill requirement) OR | 2/4 |
| 52.0419 | Electronic Spreadsheets & | .05 | | | 1701 Intro to Word Processing (1) | |
| 52.0471 | Databases* | | | | 1702 Intro to Microcomp., E-Mail, OS, & Graphic Presentations (1) | |
| | Word Processing* | .05 | | | 1703 Intro to Spreadsheets (1) OR | |
| | | | | | University Computer Literacy Exams (TBE: TA1501, TB1502 & TC1503) | |
| | | | | CEET 1110 | Basic Electronics | 2 |
| Total Pathway Credits | | | 15 | Total Major Course Credits Required | | 31 |
| TOTAL Potential(college) Credits Earned in High School | | | 19 | TOTAL Credits Required for Major | | 65 |

Note: This is a regional agreement. Some classes and some concurrent enrollment agreements may not be available in your particular high school. See your individual school for specific program offering. **Note:*= concurrent **= distant** **updated 9-26-07**